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(54) MOTOR WITH BRAKE

(57) Abstract:

PURPOSE: To generate a brake torque in a small-sized light-weight motor by integrating a permanent magnet and an electromagnet, and controlling to switch the energization of an electromagnet.

CONSTITUTION: An exciting coil 27 is not energized when a motor is stopped, a brake disc 20 is attracted by a permanent magnet 23, and the outer periphery of the brake disc 20 is pressed to a frictional disc 26. An energizing coil 27 is energized by the coil 27 when the motor is rotated, a magnetic flux for cancelling the magnetic flux by the magnet 23 is generated, and the disc 20 is separated from the disc 26 by a recoiling spring 22. The magnetic fluxes of the magnet 23 and the coil 27 are added by altering the energizing polarity to the coil 27, and acted to the disc 22, a large contacting pressure is generated between the discs 22 and 26 to abruptly brake.

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